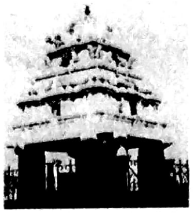
BRUHAT BANGLORE MAHANAGARA PALIKE



DASARAHALLI-ZONE

T.DASARAHALLI.SUB-DIVISION.

EMB

Name of Work: Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Est.Cost: 92.91 Lakhs

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No:14 Bagalagunte

Pre measurement recorded on:

Item No	Description of Item	No	Length	Breadth	depth	Qty	Unit
1	Earth work excavation by manual means for roads , drains & similar works in ordinary soil involving ,excavated surface levelled &neatly dressed . the disposed earth to be levelled after breaking of clods complete as per specifications.						Cum
	For RCC drain						
	Havanoor Layout						
	6 th Cross						
	LHS	1	11.00	1.10	1.00	12.10	
	RHS	1	18.00	1.10	1.00	19.80	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	14.00	1.10	1.00	15.40	
	8 th Cross						
	LHS	1	29.00	1.10	1.00	31.90	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
	RHS	1	30.00	1.10	1.00	33.00	
		1	29.60	1.10	1.00	32.56	
	4 th Main Defence Colony						
	LHS	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	17.00	1.10	1.00	18.70	
	RHS	1	30.00	1.10	1.00	33.00	
		1	9.20	1.10	1.00	10.12	
		1	19.60	1.10	1.00	21.56	
		1	30.00	1.10	1.00	33.00	
		1	14.00	1.10	1.00	15.40	
	7 th Cross Defencf Colony						
	LHS	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	13.50	1.10	1.00	14.85	
	RHS	1	15.00	1.10	1.00	16.50	
		1	30.00	1.10	1.00	33.00	
		1	12.80	1.10	1.00	14.08	

05/12/2020
A.E.E
TD 5D

	Widia School Inside	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	5.00	1.10	1.00	5.50	
		1	3.00	1.10	1.00	3.30	
		1	1.50	1.10	1.00	1.65	
	1 st A Cross Havanoor L/O						
	LHS	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	4.00	1.10	1.00	4.40	
	RHS	1	21.00	1.10	1.00	23.10	
	Cross Road RHS	1	21.00	1.10	1.00	23.10	
	For Culverts						
	4 th Main Defence Colony Culvert 1	1	4.60	1.80	1.20	9.94	
	Culvert-2	1	5.10	1.80	1.20	11.02	
	5 th Cross Muneshwara nagara	1	5.20	1.80	1.20	11.23	
	4 th Cross Muneshwara nagara	1	5.80	1.80	1.20	12.53	
	10 th Cross Sheshadri Layout	1	9.50	1.80	1.20	20.52	
	Near MEI Ground	1	5.30	1.80	1.00	9.54	
	In side of Widia School	1	4.80	1.80	1.20	10.37	
	For Road						
	13 th Cross From Widia school						
	Ch 0.00 to 30.00	2	30.00	1.20	0.20	14.40	
	30-60	2	30.00	1.20	0.20	14.40	
	60-90	2	30.00	1.20	0.20	14.40	
	90-93	2	3.00	1.20	0.20	1.44	
	93-105	2	12.00	1.20	0.20	5.76	
	Road gap						
	Approach	2	3.00	1.20	0.20	1.44	
	3.00 to 30.00	2	27.00	1.20	0.20	12.96	
	30-60	2	30.00	1.20	0.20	14.40	
	60-90	2	30.00	1.20	0.20	14.40	
	90-120	2	30.00	1.20	0.20	14.40	
	120-122.60	2	2.60	1.20	0.20	1.25	
	122.6-124	2	1.40	1.20	0.20	0.67	
	Cross Road Gap						
	0.00-18.00	2	18.00	1.20	0.20	8.64	
	High Tenition line Road From Tumkur						
	Ch 0.00 to 30.00	2	30.00	1.20	0.20	14.40	

A.E.E.

		2	24.50	1.20	0.20	11.76	
		2	11.00	1.20	0.20	5.28	
	For desilting of drain						
	13 th Cross From Widia school						
	Ch 0.00 to 30.00	2	30.00	0.45	0.50	13.50	
	30-60	2	30.00	0.45	0.55	14.85	
	60-90	2	30.00	0.45	0.55	14.85	
	90-93	2	3.00	0.45	0.50	1.35	
	93-105	2	12.00	0.45	0.55	5.94	
	Road gap						
	0-30.00	2	30.00	0.45	0.55	14.85	
	30-60	2	30.00	0.45	0.50	13.50	
	60-90	2	30.00	0.45	0.55	14.85	
	90-120	2	30.00	0.45	0.55	14.85	
	120-135	2	15.00	0.45	0.55	7.43	
					Total Quantity	**1295.13**	**Cum**
					Payable Quantity	**1293.58**	**Cum**

A.E 01/23 TO 04/23

Assistant Engineer
Ward NO-14

02/02/23 TO 24/04/23

Assistant Executive Engineer
Dasarahalli Sub division

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Pre measurement recorded on:

Item No	Discription of Item	No	Length	Breadth	depth	Qty	Unit
2	KSRRB M2100-10 : Providing and laying plain cement concrete of mix 1:3:6 with OPC @220kgs with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @0.46cum in foundation mechanically mixed placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labor, HOM curing, form works, scaffolding and centering complete as per specification.						Cum
	For RCC drain						
	Havanoor Layout						
	6 th Cross						
	LHS	1	11.00	1.10	0.15	1.82	
	RHS	1	18.00	1.10	0.15	2.97	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	14.00	1.10	0.15	2.31	
	8 th Cross						
	LHS	1	29.00	1.10	0.15	4.79	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
	RHS	1	30.00	1.10	0.15	4.95	
		1	29.60	1.10	0.15	4.88	
	4 th Main Defence Colony						
	LHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	17.00	1.10	0.15	2.81	
	RHS	1	30.00	1.10	0.15	4.95	
		1	9.20	1.10	0.15	1.52	
		1	19.60	1.10	0.15	3.23	
		1	30.00	1.10	0.15	4.95	
		1	14.00	1.10	0.15	2.31	
	7 th Cross Defencf Colony						
	LHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	13.50	1.10	0.15	2.23	
	RHS	1	15.00	1.10	0.15	2.48	
		1	30.00	1.10	0.15	4.95	
		1	12.80	1.10	0.15	2.11	

A.E.E. / A.E.E
TD Sub Div

Widia School Inside		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	5.00	1.10	0.15	0.83	
		1	3.00	1.10	0.15	0.50	
		1	1.50	1.10	0.15	0.25	
1 st A Cross Havanoor L/O							
	LHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	4.00	1.10	0.15	0.66	
	RHS	1	21.00	1.10	0.15	3.47	
Cross Road RHS		1	21.00	1.10	0.15	3.47	
For Culverts							
4 th Main Defence Colony Culvert 1		1	4.60	1.80	0.20	1.66	
	Culvert-2	1	5.10	1.80	0.20	1.84	
5 th Cross Muneshwara nagara		1	5.20	1.80	0.20	1.87	
4 th Cross Muneshwara nagara		1	5.80	1.80	0.20	2.09	
10 th Cross Sheshadri Layout		1	9.50	1.80	0.20	3.42	
Near MEI Ground		1	5.30	1.80	0.20	1.91	
Inside of Widia School		1	4.80	1.80	0.20	1.73	
For Ramps of Culverts							
4 th Main Defence Colony Culvert 1		2	4.60	1.00	0.15	1.38	
	Culvert-2	2	5.10	1.00	0.15	1.53	
5 th Cross Muneshwara nagara		2	5.20	1.00	0.15	1.56	
4 th Cross Muneshwara nagara		2	5.80	1.00	0.15	1.74	
10 th Cross Sheshadri Layout		2	9.50	1.00	0.20	3.80	
Near MEI Ground		2	5.30	1.00	0.20	2.12	
Inside of Widia School		2	4.80	1.00	0.15	1.44	
					Total Quantity	169.68	**Cum**
					Payable Quantity	**169.68**	**Cum**

A.E.E. 10/02/23 JD 10/02/23

10/02/23 to 27/02/23

Assistant Engineer
Ward NO-14

Assistant Executive Engineer
Dasarahalli Sub division

ıme of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Item No	Discription of Item	No	Sides	Length	Breadth	depth	Qty	Unit
	Pre measurement recorded on:							
3	Providing and laying in position plain / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC cement @ 300 kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.43cum, machine mixed concrete well compacted for wall and bottom including centering and shuttering cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.							
	For RCC drain							
	Havanoor Layout							
	For Raft							
	6 th Cross							
	LHS	1	1	11.00	1.10	0.15	1.82	
	RHS	1	1	18.00	1.10	0.15	2.97	
		1	1	30.00	1.10	0.15	4.95	
		1	1	30.00	1.10	0.15	4.95	
		1	1	30.00	1.10	0.15	4.95	
		1	1	14.00	1.10	0.15	2.31	
	8 th Cross							
	LHS	1	1	29.00	1.10	0.15	4.79	
		1	1	30.00	1.10	0.15	4.95	
		1	1	30.00	1.10	0.15	4.95	
	RHS	1	1	30.00	1.10	0.15	4.95	
		1	1	29.60	1.10	0.15	4.88	
	4 th Main Defence Colony							
	LHS	1	1	30.00	1.10	0.15	4.95	
		1	1	30.00	1.10	0.15	4.95	
		1	1	30.00	1.10	0.15	4.95	
		1	1	17.00	1.10	0.15	2.81	
	RHS	1	1	30.00	1.10	0.15	4.95	
		1	1	9.20	1.10	0.15	1.52	
		1	1	19.60	1.10	0.15	3.23	
		1	1	30.00	1.10	0.15	4.95	
		1	1	14.00	1.10	0.15	2.31	
	7 th Cross Defencf Colony							
	LHS	1	1	30.00	1.10	0.15	4.95	
		1	1	30.00	1.10	0.15	4.95	
		1	1	13.50	1.10	0.15	2.23	
	RHS	1	1	15.00	1.10	0.15	2.48	
		1	1	30.00	1.10	0.15	4.95	

A.E.E. 03/03/23 TO TDS 03/03/23

EE 03/03/23

Widia School Inside		1	1	12.80	1.10	0.15	2.11
		1	1	30.00	1.10	0.15	4.95
		1	1	30.00	1.10	0.15	4.95
		1	1	30.00	1.10	0.15	4.95
		1	1	5.00	1.10	0.15	0.83
		1	1	3.00	1.10	0.15	0.50
1 st A Cross Havanoor L/O		1	1	1.50	1.10	0.15	0.25
	LHS	1	1	30.00	1.10	0.15	4.95
		1	1	30.00	1.10	0.15	4.95
		1	1	30.00	1.10	0.15	4.95
		1	1	4.00	1.10	0.15	0.66
	RHS	1	1	21.00	1.10	0.15	3.47
Cross Road RHS		1	1	21.00	1.10	0.15	3.47
For Culverts							
4 th Main Defence Colony	Culvert 1	1	1	4.60	1.80	0.15	1.24
	Culvert-2	1	1	5.10	1.80	0.15	1.38
5 th Cross Muneshwara nagara		1	1	5.20	1.80	0.15	1.40
4 th Cross Muneshwara nagara		1	1	5.80	1.80	0.15	1.57
10 th Cross Sheshadri Layout		1	1	9.50	1.80	0.15	2.57
10 th Cross Sheshadri Layout		1	1	9.50	1.80	0.15	2.57
Near MEI Ground		1	1	5.30	1.80	0.15	1.43
For Side wall							
6 th Cross							
	LHS	1	2	18.00	0.15	0.60	3.24
	RHS	1	2	30.00	0.15	0.60	5.40
		1	2	30.00	0.15	0.60	5.40
		1	2	30.00	0.15	0.60	5.40
		1	2	14.00	0.15	0.60	2.52
		1	2	14.00	0.15	0.60	2.52
8 th Cross							
	LHS	1	2	29.00	0.15	0.70	6.09
		1	2	30.00	0.15	0.70	6.30
		1	2	30.00	0.15	0.70	6.30
	RHS	1	2	30.00	0.15	0.70	6.30
		1	2	29.60	0.15	0.70	6.22
4 th Main Defence Colony		1	2	30.00	0.15	0.60	5.40
	LHS	1	2	30.00	0.15	0.60	5.40
		1	2	30.00	0.15	0.60	5.40
		1	2	17.00	0.15	0.60	3.06
		1	2	30.00	0.15	0.60	5.40
	RHS	1	2	9.20	0.15	0.60	1.66
		1	2	19.60	0.15	0.60	3.53
		1	2	30.00	0.15	0.60	5.40

A.E.E. TDSD 13/02/23

AE, EE 28/2/23

	1	2	14.00	0.15	0.60	2.52	
	1	2	30.00	0.15	0.60	5.40	
7 th Cross Defencf Colony							
LHS	1	2	30.00	0.15	0.60	5.40	
	1	2	30.00	0.15	0.60	5.40	
	1	2	13.50	0.15	0.60	2.43	
RHS	1	2	15.00	0.15	0.60	2.70	
	1	2	30.00	0.15	0.60	5.40	
	1	2	12.80	0.15	0.60	2.30	
Widia School Inside	1	2	30.00	0.15	0.60	5.40	
	1	2	30.00	0.15	0.60	5.40	
	1	2	30.00	0.15	0.70	6.30	
	1	2	5.00	0.15	0.70	1.05	
	1	2	3.00	0.15	0.70	0.63	
	1	2	1.50	0.15	0.70	0.32	
1 st A Cross Havanoor L/O							
LHS	1	2	30.00	0.15	0.60	5.40	
	1	2	30.00	0.15	0.60	5.40	
	1	2	30.00	0.15	0.60	5.40	
	1	2	4.00	0.15	0.60	0.72	
RHS	1	2	21.00	0.15	0.60	3.78	
Cross Road RHS	1	2	21.00	0.15	0.60	3.78	
For Culverts							
4 th Main Defence Colony Culvert 1	1	2	4.60	0.30	0.70	1.93	
Culvert-2	1	2	5.10	0.30	0.60	1.84	
5 th Cross Muneshwara nagara	1	2	5.20	0.30	0.60	1.87	
4 th Cross Muneshwara nagara	1	2	5.80	0.30	0.60	2.09	
Culvert Inside of Widia School	1	2	4.80	0.30	0.60	1.73	
10 th Cross Sheshadri Layout	1	2	9.50	0.30	0.70	3.99	
Near MEI Ground	1	2	5.30	0.30	0.60	1.91	
Deck Slabs of Culverts							
4 th Main Defence Colony Culvert 1	1	1	4.60	1.50	0.25	1.73	
Culvert-2	1	1	5.10	1.50	0.25	1.91	
5 th Cross Muneshwara nagara	1	1	5.20	1.50	0.25	1.95	
4 th Cross Muneshwara nagara	1	1	5.80	1.50	0.25	2.18	
Culvert Inside of Widia School	1	1	4.80	1.20	0.25	1.44	
10 th Cross Sheshadri Layout	1	1	9.50	1.50	0.25	3.56	
Near MEI Ground	1	1	5.30	1.20	0.25	1.59	
Ramps of Culverts							
4 th Main Defence Colony Culvert 1	1	2	4.60	0.75	0.10	0.69	
Culvert-2	1	2	5.10	0.75	0.10	0.77	
5 th Cross Muneshwara nagara	1	2	5.20	0.75	0.10	0.78	
4 th Cross Muneshwara nagara	1	2	5.80	0.75	0.10	0.87	
Culvert Inside of Widia School	1	2	4.80	0.75	0.10	0.72	

A.E.E. 13/07/23 A.D.S.D.

8/7/23

10 th Cross Sheshadri Layout	1	2	9.50	0.75	0.10	1.43	
Near MEI Ground	1	2	5.30	0.75	0.10	0.80	
					Total Quantity	354.77	Cum
					Payable Quantity	354.10	Cum

A.E.E.
DSD

Assistant Engineer
Ward NO-14

13/02/23 to 02/03/23

Assistant Executive Engineer
Dasarahalli Sub division

BHURAT BENGALURU MAHANAGAR PALIKE

DASARAHALLI DIVISION

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Pre-Measurement Sheet

	Premeasurement Recorded on;				

First and Fnal

4	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications

Sl no	Dia of Bar in mm	Side	Spacing of Bar	Nos	Length of Bar in mtr	Total Length of Bar in mtr	Type of Bar	Standard Weight per Meter in kgs	Weight of Steel in kgs	Unit
For Drain										
Havanoor layout										
6 th Cross LHS										
1	10	1	150mm/CC	9	11.00	99.0	Distribution	0.62	61	
2	10	1	150mm C/c	110	2.2	242.0	Main Bar	0.62	150	
6 th Cross RHS										
1	10	1	150mm/CC	9	18.00	162.0	Distribution	0.62	100	
2	10	1	150mm C/c	180	2.20	396.0	Main Bar	0.62	246	
1	10	1	150mm/CC	9	104.00	936.0	Distribution	0.62	580	
2	10	1	150mm C/c	1004	2.20	2208.8	Main Bar	0.62	1369	
8 th Cross LHS										
1	10	1	150mm/CC	9	29.00	261.0	Distribution	0.62	162	
2	10	1	150mm C/c	290	2.20	638.0	Main Bar	0.62	396	
1	10	1	150mm/CC	9	60.00	540.0	Distribution	0.62	335	
2	10	1	150mm C/c	600	2.20	1320.0	Main Bar	0.62	818	
8 th Cross RHS										
1	10	1	150mm/CC	9	59.00	531.0	Distribution	0.62	329	
2	10	1	150mm C/c	590	2.20	1298.0	Main Bar	0.62	805	
4 th Main Defence Colony LHS										
1	10	1	150mm/CC	9	107.00	963.0	Distribution	0.62	597	
2	10	1	150mm C/c	1007	2.20	2215.4	Main Bar	0.62	1374	
4 th Main Defence Colony RHS										
1	10	1	150mm/CC	9	39.20	352.8	Distribution	0.62	219	
2	10	1	150mm C/c	392	2.20	862.4	Main Bar	0.62	535	
1	10	1	150mm/CC	9	19.60	176.4	Distribution	0.62	109	
2	10	1	150mm C/c	196	2.20	431.2	Main Bar	0.62	267	
1	10	1	150mm/CC	9	44.00	396.0	Distribution	0.62	246	

2	10	1	150mm C/c	440	2.20	968.0	Main Bar	0.62	600	
			7 th Cross Defence Colony LHS							
1	10	1	150mm/CC	9	73.50	661.5	Distribution	0.62	410	
2	10	1	150mm C/c	735	2.20	1617.0	Main Bar	0.62	1003	
			7 th Cross Defence Colony RHS							
1	10	1	150mm/CC	9	15.00	135.0	Distribution	0.62	84	
2	10	1	150mm C/c	150	2.20	330.0	Main Bar	0.62	205	
1	10	1	150mm/CC	9	42.80	385.2	Distribution	0.62	239	
2	10	1	150mm C/c	428	2.20	941.6	Main Bar	0.62	584	
			Widia School Inside							
1	10	1	150mm/CC	9	99.50	895.5	Distribution	0.62	555	
2	10	1	150mm C/c	995	2.20	2189.0	Main Bar	0.62	1357	
			1 st A Cross Havanoor Layout LHS							
1	10	1	150mm/CC	9	94.00	846.0	Distribution	0.62	525	
2	10	1	150mm C/c	940	2.20	2068.0	Main Bar	0.62	1282	
			1 st A Cross Havanoor Layout RHS							
1	10	1	150mm/CC	9	21.00	189.0	Distribution	0.62	117	
2	10	1	150mm C/c	210	2.20	462.0	Main Bar	0.62	286	
			Cross Road RHS							
1	10	1	150mm/CC	9	21.00	189.0	Distribution	0.62	117	
2	10	1	150mm C/c	210	2.20	462.0	Main Bar	0.62	286	
			For Culverts							
			4 th Main Defence Colony **Culvert 1** For Raft and Side wall							
1	12	2	150mm/CC	11	4.60	101.2	Distribution	0.89	90	
2	12	1	150mm C/c	46	3.10	142.6	Main Bar	0.89	127	
3	12	1	150mm C/c	46	2.50	115.0	Main Bar	0.89	102	
			For deck Slab							
1	16	2	150mm/CC	11	4.60	101.2	Distribution	1.58	160	
2	16	2	150mm C/c	46	1.80	165.6	Main Bar	1.58	262	
			4 th Main Defence Colony **Culvert 2** For Raft and Side wall							
1	12	2	150mm/CC	11	5.10	112.2	Distribution	0.89	100	
2	12	1	150mm C/c	51	3.10	158.1	Main Bar	0.89	141	
3	12	1	150mm C/c	51	2.50	127.5	Main Bar	0.89	113	
			For deck Slab							
1	16	2	150mm/CC	11	5.10	112.2	Distribution	1.58	177	
2	16	2	150mm C/c	51	1.80	183.6	Main Bar	1.58	290	
			5 th Cross Muneshwaranagara **Culvert 3** For Raft and Side wall							
1	12	2	150mm/CC	11	5.20	114.4	Distribution	0.89	102	
2	12	1	150mm C/c	52	3.10	161.2	Main Bar	0.89	143	
3	12	1	150mm C/c	52	2.50	130.0	Main Bar	0.89	116	
			For deck Slab							
1	16	2	150mm/CC	11	5.20	114.4	Distribution	1.58	181	
2	16	2	150mm C/c	52	1.80	187.2	Main Bar	1.58	296	
			4 th Cross Muneshwaranagara **Culvert 4** For Raft and Side wall							
1	12	2	150mm/CC	11	5.80	127.6	Distribution	0.89	114	

2	12	1	150mm C/c	58	3.10	179.8	Main Bar	0.89	160	
3	12	1	150mm C/c	58	2.50	145.0	Main Bar	0.89	129	
			For deck Slab							
1	16	2	150mm/CC	11	5.80	127.6	Distribution	1.58	202	
2	16	2	150mm C/c	58	1.80	208.8	Main Bar	1.58	330	
	10 th Cross Sheshadri layout **Culvert 5** For Raft and Side wall									
1	12	2	150mm/CC	11	9.50	209.0	Distribution	0.89	186	
2	12	1	150mm C/c	95	3.10	294.5	Main Bar	0.89	262	
3	12	1	150mm C/c	95	2.50	237.5	Main Bar	0.89	211	
			For deck Slab							
1	16	2	150mm/CC	11	9.50	209.0	Distribution	1.58	330	
2	16	2	150mm C/c	95	1.80	342.0	Main Bar	1.58	540	
	Near MEI Ground **Culvert 6** For Raft and Side wall									
1	12	2	150mm/CC	11	5.30	116.6	Distribution	0.89	104	
2	12	1	150mm C/c	52	3.10	161.2	Main Bar	0.89	143	
3	12	1	150mm C/c	52	2.50	130.0	Main Bar	0.89	116	
			For deck Slab							
1	16	2	150mm/CC	11	5.30	116.6	Distribution	1.58	184	
2	16	2	150mm C/c	52	1.80	187.2	Main Bar	1.58	296	
	Near Widia School **Culvert 7** For Raft and Side wall									
1	12	2	150mm/CC	11	4.80	105.6	Distribution	0.89	94	
2	12	1	150mm C/c	46	3.10	142.6	Main Bar	0.89	127	
3	12	1	150mm C/c	46	2.50	115.0	Main Bar	0.89	102	
			For deck Slab							
1	16	2	150mm/CC	11	4.80	105.6	Distribution	1.58	167	
2	16	2	150mm C/c	46	1.80	165.6	Main Bar	1.58	262	
								Total Quantity of Steel in Kg's	22806.7	Kgs
								Total Quantity of Steel in Tonne's	22.81	Tonnes

12/02/23

Asst Engineer
Ward No;14

01/03/23

Assistant Executive Engineer
Dasarahalli Sub Division

01/03/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Pre measurement recorded on:						
5	Providing and fixing RCC slab of 100mm thick for drain in cement concrete 1;1.5;3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1;3 cement mortar including form work etc complete as per specification						
	For RCC drain						
	Havanoor Layout						
	6 th Cross LHS						
	6 th Cross						
	LHS	1	11.00	0.90		9.90	
	RHS	1	18.00	0.90		16.20	
		1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	14.00	0.90		12.60	
	8 th Cross						
	LHS	1	29.00	0.90		26.10	
		1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
	RHS	1	30.00	0.90		27.00	
		1	29.60	0.90		26.64	
	4 th Main Defence Colony						
	LHS	1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	17.00	0.90		15.30	
	RHS	1	30.00	0.90		27.00	
		1	9.20	0.90		8.28	
		1	19.60	0.90		17.64	
		1	30.00	0.90		27.00	
		1	14.00	0.90		12.60	
	7 th Cross Defencf Colony						
	LHS	1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	13.50	0.90		12.15	
	RHS	1	15.00	0.90		13.50	
		1	30.00	0.90		27.00	
		1	12.80	0.90		11.52	
	Widia School Inside	1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	30.00	0.90		27.00	
		1	5.00	0.90		4.50	
		1	3.00	0.90		2.70	
		1	1.50	0.90		1.35	

A.E.E Bagalagunte
TD SUD

	1 st A Cross Defence Colony LHS	1	15.00	0.90		13.50	
		1	12.00	0.90		10.80	
		1	16.00	0.90		14.40	
		1	4.00	0.90		3.60	
	1 st A Cross Defence Colony RHS	1	21.00	0.90		18.90	
	Cross Road RHS	1	21.00	0.90		18.90	
	Stacked at MEI Ground	225	0.60	0.90		121.50	
				Total Quantity		**851.58**	
				Payable Quantity		851.58	

A.E.E. TDSD

Assistant Engineer
Ward NO-14
15/06/23

Assistant Executive Engineer
Dasarahalli Sub division
15/06/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
6	KSRRB 300-Compaction. KSRRB-58 Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour,HOM of machinery complete as per specifications MORTH						Sqm
	For Road						
	13 th Cross From Widia school						
	Ch 0.00 to 30.00	2	30.00	1.20		72.00	
	30-60	2	30.00	1.20		72.00	
	60-90	2	30.00	1.20		72.00	
	90-93	2	3.00	1.20		7.20	
	93-105	2	12.00	1.20		28.80	
	Ramaiah layout Main Road gap						
	Approach	2	3.00	1.20		7.20	
	Ch 3.00 to 30.00	2	27.00	1.20		64.80	
	30-60	2	30.00	1.20		72.00	
	60-90	2	30.00	1.20		72.00	
	90-120	2	30.00	1.20		72.00	
	120-122.60	2	2.60	1.20		6.24	
	122.6-124	2	1.40	1.20		3.36	
	Cross Road Gap						
	0.00-18.00	2	18.00	1.20		43.20	
	High Tensition line Road From Tumkur					0.00	
	Ch 0.00 to 30.00	2	30.00	1.60		96.00	
		2	24.50	1.60		78.40	
		2	11.00	1.80		39.60	
					Total Quantity	806.80	Sqm
					Payable Quantity	**806.00**	Sqm

A.E.E 04/05/23
FDSD 05/05/23

Assistant Engineer
Ward NO-14
04/05/23
05/05/23

Assistant Executive Engineer
Dasarahalli Subdivision
04/05/23 PD
05/05/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Pre measurement recorded on:						
7	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18)						
	For Asphalt Road						
	13 th Cross From Widia school						
	Ch 0.00 to 30.00	2	30.00	1.20	0.20	14.40	
	30-60	2	30.00	1.20	0.20	14.40	
	60-90	2	30.00	1.20	0.20	14.40	
	90-93	2	3.00	1.20	0.20	1.44	
	93-105	2	12.00	1.20	0.20	5.76	
	Ramaiah layout Main Road gap						
	Approach	2	3.00	1.20	0.20	1.44	
	Ch 3.00 to 30.00	2	27.00	1.20	0.20	12.96	
	30-60	2	30.00	1.20	0.20	14.40	
	60-90	2	30.00	1.20	0.20	14.40	
	90-120	2	30.00	1.20	0.20	14.40	
	120-122.60	2	2.60	1.20	0.20	1.25	
	122.6-124	2	1.40	1.20	0.20	0.67	
	Cross Road Gap						
	0.00-18.00	2	18.00	1.20	0.20	8.64	
	High Tensition line Road From Tumkur Road						
	Ch 0.00 to 30.00	2	30.00	1.60	0.20	19.20	
		2	24.50	1.60	0.20	15.68	
		2	11.00	1.80	0.20	7.92	
				Present Quatity		**161.36**	**Cum**
				Total Quantity		**161.20**	**Cum**

A.E.E 04/05/23 TDS

Assistant Engineer
Ward NO-14
04/05/23
05/05/23

Asst. Executive Engineer,
Dasara halli Sub division
05/05/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Pre measurement recorded on:						
8	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.Clause 502 of MORTH V revision						**Sqm**
	For Road						
	13 th Cross From Widia school						
	Ch 0.00 to 30.00	2	30.00	1.20		72.00	
	30-60	2	30.00	1.20		72.00	
	60-90	2	30.00	1.20		72.00	
	90-93	2	3.00	1.20		7.20	
	93-105	2	12.00	1.20		28.80	
	Ramaiah layout Main Road gap						
	Approach	2	3.00	1.20		7.20	
	Ch 3.00 to 30.00	2	27.00	1.20		64.80	
	30-60	2	30.00	1.20		72.00	
	60-90	2	30.00	1.20		72.00	
	90-120	2	30.00	1.20		72.00	
	120-122.60	2	2.60	1.20		6.24	
	122.6-124	2	1.40	1.20		3.36	
	Cross Road Gap						
	0.00-18.00	2	18.00	1.20		43.20	
	High Tensition line Road From Tumkur						
	Ch 0.00 to 30.00	2	30.00	1.60		96.00	
		2	24.50	1.60		78.40	
		2	11.00	1.80		39.60	
					Total Quantity	**806.80**	**Sqm**
					Payable Quantity	**806.00**	**Sqm**

AE.5
TDS

Assistant Engineer
Ward NO-14
15/05/23
17/05/23

Assistant Executive Engineer
Dasarahalli Subdivision
18/05/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Pre measurement recorded on:

Item No	Discription of Item	No	Length	Breadth	depth	Qty	Unit
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.161 I.No.21.17.6) Issue Basic Rate Date;02.11.2021 to till now						Cum
	For Asphalt Road						
	13 th Cross From Widia school						
	Ch 0.00 to 30.00	2	30.00	1.20	0.05	3.60	
	30-60	2	30.00	1.20	0.05	3.60	
	60-90	2	30.00	1.20	0.05	3.60	
	90-93	2	3.00	1.20	0.05	0.36	
	93-105	2	12.00	1.20	0.05	1.44	
	Ramaiah layout Main Road gap						
	Approach	2	3.00	1.20	0.05	0.36	
	Ch 3.00 to 30.00	2	27.00	1.20	0.05	3.24	
	30-60	2	30.00	1.20	0.05	3.60	
	60-90	2	30.00	1.20	0.05	3.60	
	90-120	2	30.00	1.20	0.05	3.60	
	120-122.60	2	2.60	1.20	0.05	0.31	
	122.6-124	2	1.40	1.20	0.05	0.17	
	Cross Road Gap						
	0.00-18.00	2	18.00	1.20	0.05	2.16	
	High Tensition line Road From Tumkur Road						
	Ch 0.00 to 30.00	2	30.00	1.60	0.05	4.80	
		2	24.50	1.60	0.05	3.92	
		2	11.00	1.80	0.05	1.98	
					Total Quantity	**40.34**	**Cum**
					Payable Quantity	**40.30**	**Cum**

A.E.E. 18/5/23 DSD

Assistant Engineer
Ward NO-14
BBMP Bangalore
15/05/23
14/05/23

Assistant Executive Engineer
Dasarahalli Sub division
18/05/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Pre measurement recorded on:

Item No	Discription of Item	No	Length	B 1	B 2	Average	Depth	Qty	Unit
10	Cleaning the existing black topped surface with brooms ,soft brushes and finally dusting with old gunny baga and / or compressed air to resceive bituminous treatment including cost of all material, labour, HOM of machineries complete as per specifications								Sqm
	13 th Cross From Widia school								
	Ch 0.00 to 30.00	1	30.00	5.20	5.80	5.50		165.00	
	30-60	1	30.00	5.80	5.40	5.60		168.00	
	60-90	1	30.00	5.40	5.30	5.35		160.50	
	90-93	1	3.00	5.30	5.80	5.55		16.65	
	93-105	1	12.00	5.80	8.70	7.25		87.00	
	Ramaiah layout Main Road gap								
	Approach	1	3.00	6.90	5.70	6.30		18.90	
	Ch 3.00 to 30.00	1	27.00	5.80	5.20	5.50		148.50	
	30-60	1	30.00	5.20	5.70	5.45		163.50	
	60-90	1	30.00	5.80	5.20	5.50		165.00	
	90-120	1	30.00	5.20	5.00	5.10		153.00	
	120-122.60	1	2.60	5.00	5.20	5.10		13.26	
	122.6-124	1	1.40	5.30	6.70	6.00		8.40	
	High Tension line Road From								
	Ch 0.00 to 30.00	1	30.00	7.70	9.40	8.55		256.50	
		1	24.20	22.80	21.80	22.30		539.66	
	Deductions	-1	10.00	7.80	7.90	7.85		-78.50	
							Total Quantity	1985.37	Sqm
							Payable Quantity	**1915.00**	Sqm

A.E.E. 16/10/23

Assistant Engineer 14/05/23
Ward NO-14

Assistant Executive Engineer 16/08/23
Dasara halli Sub division 25/08/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Pre measurement recorded on:

Item No.	Discription of Item	No	Length	B 1	B 2	Average	Depth	Qty	Unit
11	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								**Sqm**
	13 th Cross From Widia school								
	Ch 0.00 to 30.00	1	30.00	5.20	5.80	5.50		165.00	
	30-60	1	30.00	5.80	5.40	5.60		168.00	
	60-90	1	30.00	5.40	5.30	5.35		160.50	
	90-93	1	3.00	5.30	5.80	5.55		16.65	
	93-105	1	12.00	5.80	8.70	7.25		87.00	
	Ramaiah layout Main Road gap								
	Approach	1	3.00	6.90	5.70	6.30		18.90	
	Ch 3.00 to 30.00	1	27.00	5.80	5.20	5.50		148.50	
	30-60	1	30.00	5.20	5.70	5.45		163.50	
	60-90	1	30.00	5.80	5.20	5.50		165.00	
	90-120	1	30.00	5.20	5.00	5.10		153.00	
	120-122.60	1	2.60	5.00	5.20	5.10		13.26	
	122.6-124	1	1.40	5.30	6.70	6.00		8.40	
	High Tension line Road From								
	Ch 0.00 to 30.00	1	30.00	7.70	9.40	8.55		256.50	
		1	24.20	22.80	21.80	22.30		539.66	
	Deductions	-1	10.00	7.80	7.90	7.85		-78.50	
							Total Quantity	1985.37	**Sqm**
							Payable Quantity	**1915.00**	**Sqm**

A.E.E. Sub Div

Assistant Engineer 16/05/23
Ward NO-14
23/05/23

Assistant Executive Engineer 16/05/23
Dasara halli Sub division
23/05/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

Item No	Discription of Item	No	Length	B 1	B 2	Average	Depth	Qty	Unit
	Pre measurement recorded on:								
12	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 (P.No.158 I.No.21.23.6) Issue Basic Rate Date;02.11.2021 to								**Cum**
	13 th Cross From Widia school								
	Ch 0.00 to 30.00	1	30.00	5.20	5.80	5.50	0.04	6.60	
	30-60	1	30.00	5.80	5.40	5.60	0.04	6.72	
	60-90	1	30.00	5.40	5.30	5.35	0.04	6.42	
	90-93	1	3.00	5.30	5.80	5.55	0.04	0.67	
	93-105	1	12.00	5.80	8.70	7.25	0.04	3.48	
	Ramaiah layout Main Road gap								
	Approach	1	3.00	6.90	5.70	6.30	0.04	0.83	
	Ch 3.00 to 30.00	1	27.00	5.80	5.20	5.50	0.04	6.26	
	30-60	1	30.00	5.20	5.70	5.45	0.04	6.54	
	60-90	1	30.00	5.80	5.20	5.50	0.04	6.60	
	90-120	1	30.00	5.20	5.00	5.10	0.04	6.24	
	120-122.60	1	2.60	5.00	5.20	5.10	0.04	0.52	
	122.6-124	1	1.40	5.30	6.70	6.00	0.04	0.34	
	High Tensition line Road From Tumkur Road								
	Ch 0.00 to 30.00	1	30.00	7.70	9.40	8.55	0.04	9.24	
		1	24.20	22.80	22.20	22.50	0.04	22.07	
	Deductions	-1	10.00	7.80	7.90	7.85	0.04	-3.12	
							Total Quantity	79.40	**Cum**
							Payable Qty	76.60	**Cum**

A.E.E. T.D.S.D

16/05/23

Assistant Engineer
Ward NO-14

23/05/23

Assistant Executive Engineer
Dasara halli Sub division

23/05/23

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
13	Loading and un Loading						
	Quantity as Item No;1					1293.58	
					Present Quantity	**1293.58**	Cum

A.E.E
TDSD

15/06/13

Assistant Engineer
Ward,NO-14

Assistant Executive Engineer
Dasara halli Sub division

Name of work :- Improvements to drains and Providing Asphalting to Roads at Havanoor layout and sorroundings in ward No;14 Bagalagunte

	Pre measurement recorded on:						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
14	Cost of Haulage						
	Quantity as Item No;1					1293.58	
				Present Quantity		**1293.58**	Cum

A.E.E.
TDSD

15/06/23

Assistant Engineer
Ward NO-14

18/6/23

Assistant Executive Engineer
Dasarahalli Sub division